



The DoD M&S Strategy & the Supporting Role of the Defense Modeling & Simulation Office

**Colonel Kenneth C. Konwin, USAF
Director
Defense Modeling and Simulation Office**

DoD M&S Vision

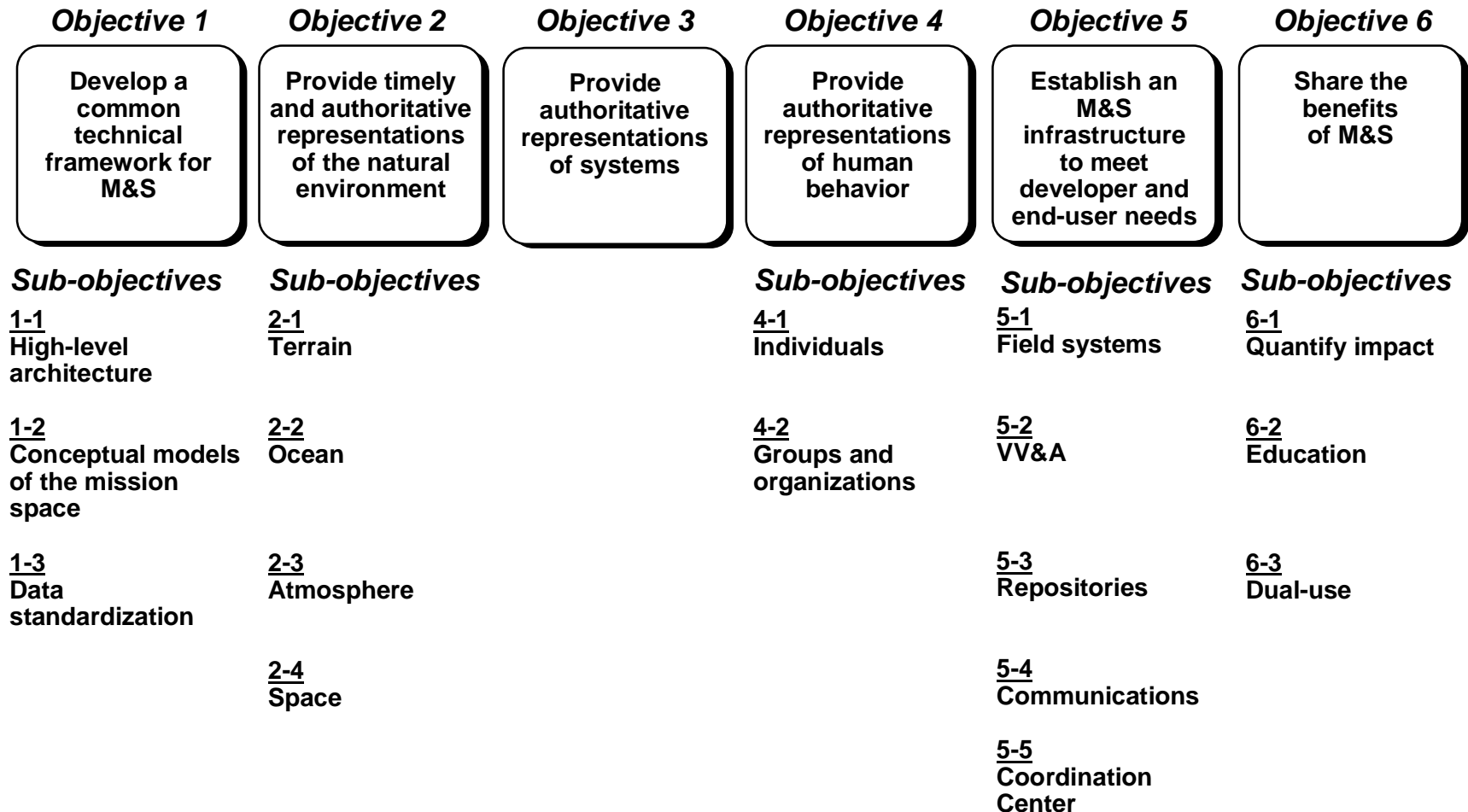
Defense modeling and simulation will provide readily-available, operationally-valid environments for use by DoD components

- to train jointly, develop doctrine and tactics, formulate operational plans, and assess war fighting situations
- as well as to support technology assessment, system upgrade, prototype and full scale development, and force structuring.

Furthermore, **common use of these environments** will promote a closer interaction between the operations and acquisition communities in carrying out their respective responsibilities. **To allow maximum utility and flexibility, these modeling and simulation environments will be constructed from affordable, reusable components interoperating through an open systems architecture.**

*DoD Executive Council on Modeling and Simulation (EXCIMS),
March 13, 1992*

The Strategy Is Being Executed Through a DoD-wide M&S Master Plan



DoD 5000.59-P, Modeling and Simulation Master Plan, October 1995

DMSO's Mission: Key corporate-level functions necessary to achieve the DoD Vision for M&S

DMSO responsibilities include:

- **Manage DoD-M&S policies, directives and publications**
- **Lead establishment and maintenance of a common technical framework**
- **Provide, or coordinate provision of, broadly-useful common infrastructure, services, and tools to the M&S community**
- **Lead development of DoD plan for the development and exploration of M&S-related technology and execute such activities as appropriate**
- **Advise, and provide OSD oversight of, major simulation programs**
- **Foster cooperative M&S developments among DoD Components**
- **Represent DoD in commercial and international M&S-related organizations and standards bodies**
- **Provide administrative support to the EXCIMS and subordinate bodies**





Gary Yerace
Chief of Staff



Col Crash Konwin
Director



COL Wm. Forrest Crain
Deputy Director



Dr. Judith Dahmann
Chief Scientist



LTC Harry Thompson
Chief, Operations



LtCol Mac McKeon
Chief, Tech. Applications



Waverly Debraux
Chief, Bus. and Fin. Mgmt.





**COL Wm Forrest Crain, USA
Deputy Director**

Staff Arrivals Summer 1999



**CAPT (sel) Dave Johnson, USN
Chief, Operations Division**



1998 M&S Industry Days Themes

- **People** are the most important ingredient to effective change
 - They deliver the technology & transition it to better tools
 - They train their colleagues in effective use
 - They deliver the solutions to the warfighter's needs
- **Partnerships** are the only practical way ahead
 - Strategic relationships tailored to application domain will increase
- **Pragmatism** is necessary to discover the affordable way ahead
 - Must satisfy today's needs better while preparing for an even better tomorrow





M&S Awards Program

R R R R R

***“People, Partnerships,
and Pragmatism”***

M&S Awards Program

- Awards for achievement in *Analysis, Training, Acquisition, and multi-domain* categories
- Government and non-government *will not compete*
- For the first year, the program will consider nominations for *8 awards* (a government and industry recipient for each of the 4 categories)
- Awards do *not have to be approved for every category* - if there is no qualified candidates for a particular category, then there will not be an award in that category for that year
- Awards will be of *nominal value* only (i.e., plaques, etc)



M&S Awards Program: Award Categories

*For achievement in the area of **Analysis***

- Achievement by a *government* group/team or individual
- Achievement by *non-government* group/team or individual

*For achievement in the area of **Training***

- Achievement by a *government* group/team or individual
- Achievement by *non-government* group/team or individual

*For achievement in the area of **Acquisition***

- Achievement by a *government* group/team or individual
- Achievement by *non-government* group/team or individual

Cross-Function: For achievement across all 3 M&S areas

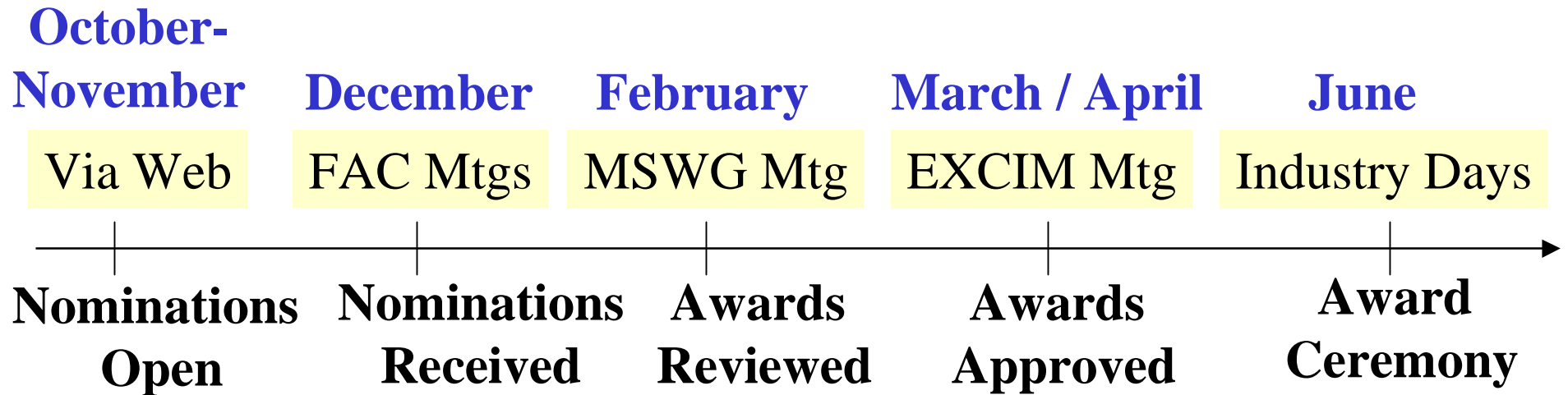
For both government and non-government organizations/individuals



M&S Awards Program: Schedule for FY 98 Awards



*M&S Awards Program:
Award Process Timelines
(FY 99 and Later)*



Award Criteria

Acquisition

Government Award

- During the award period, assigned to a government organization in the capacity as a government employee/military member
- During the award period, has made a noteworthy contribution to the development, implementation, or support of technical capabilities or operational systems that directly furthered the stated DOD M&S interests in the field of Acquisition - i.e., *providing affordable, reusable, interoperable and readily-available environments in order to facilitate:*
 - **Reduction in time** required in the acquisition process
 - **Reduction in resources** required in the acquisition process
 - **Reduction in the risk** associated with the acquisition process
 - **Increase in the quality** of the systems being developed

Award Criteria

Training

Government Award

- During the award period, assigned to a government organization in the capacity as a government employee or military member
- During the award period, has made a noteworthy contribution to the development, implementation, or support of technical capabilities or operational systems that directly further the stated DOD M&S interests in the field of training i.e., *providing affordable, reusable, interoperable and readily-available environments in order to facilitate:*
 - **Economies** in Training
 - Creation of training situations that would **not normally be possible** - such as realistic simulations of combat and mission rehearsals
 - **Enhanced safety** in training - simulating dangerous situations
 - Real-time **performance evaluation/feedback**
 - Reduction in impact of **environmental issues** upon training
 - Facilitation of long-distance **distributed training** that fosters joint and combined training events

Award Criteria

Analysis

Government Award

- During the award period, assigned to a government organization in the capacity as a government employee or military member
- During the award period, has made a noteworthy contribution to the development, implementation, or support of technical capabilities or operational systems that directly further the stated DOD M&S interests in the field of Analysis - i.e., *providing affordable, reusable, interoperable and readily-available environments in order to facilitate:*
 - Conduct of **force structure** analysis/**force sizing&mix** studies
 - Development of **operational** courses of actions/plans
 - Development of **doctrine and tactics**
 - Conduct of **logistics analysis**
 - Performance of real-time **After Action Reporting**
 - Performance of system and test **planning**

Award Criteria

Cross-Functional Area

Non-Government Award

- During the award period, employed by a non-governmental organization
- During the award period, has made a noteworthy contribution to the development, implementation, or support of technical capabilities or operational systems that directly further the overall DOD M&S objective - *i.e., providing affordable, reusable, interoperable, readily-available, and operationally valid environments to facilitate :*
 - Joint training
 - Development of doctrine and tactics
 - Formulation of operational plans
 - Assessments of war fighting situations
 - Support for technology assessment
 - Support for force structuring activities
 - Development of enabling technologies architecture
 - Support for C4ISR



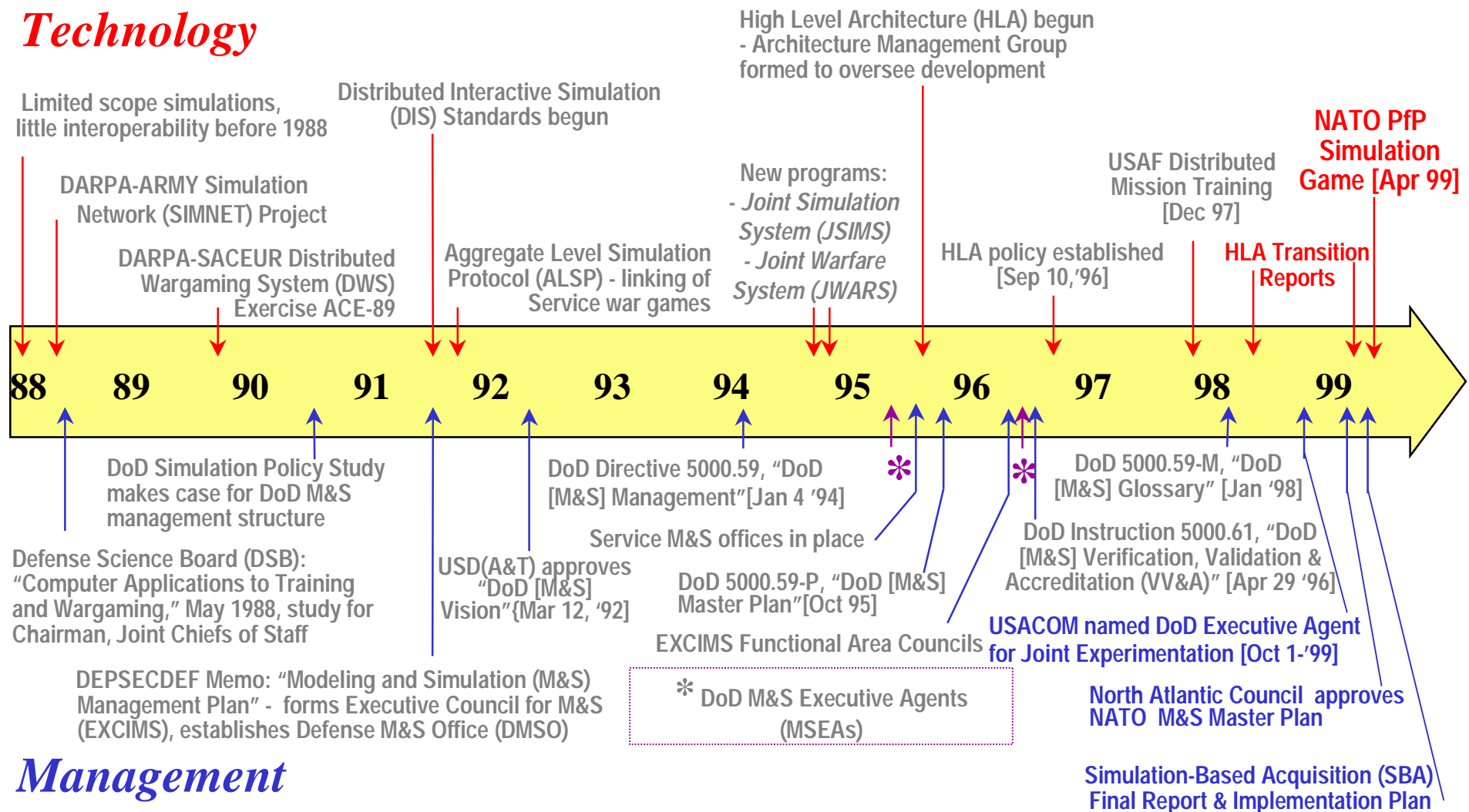
1998 M&S Awards Program

- **People** are the most important ingredient to effective change
 - DMSO M&S Awards Project Officer (Jeff Guild)
 - Functional Working Group Chairs & Individual Members
 - Don Bates (Analysis); Robin Frost (Acquisition); Dan Gardner (Training)
- **Partnerships** are the only practical way ahead
 - Industry and Government Reviewers / Voters
 - DMSO & NTSA Co-sponsor Award Trophies
- **Pragmatism** is necessary to discover the affordable way ahead
 - Program for FY 98 executed on compressed schedule w/ lessons learned applied towards future iterations



The Past, the Present, & into the Future

Technology



Management



DoD M&S Strategy: An Analogy to City Planning

